

Serial No.: 10/671,846
Amdt. Dated March 14, 2006
Reply to Office action of December 14, 2006

133074-1

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (previously presented) A multilayer backlighting display optical film, said film comprising at least two backlighting display component films, at least one of said backlighting display component films having an upper and lower surface, said upper surface comprising a series of optical structures and a plurality of raised spacing structures, said lower surface being essentially planar, said backlighting display component films being joined so as to constitute a single film structure comprising at least one gap disposed between said backlighting display component films, wherein said gap is greater than the coherent length of light used to illuminate said optical film.

2. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said optical structures are convex structures.

3. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said optical structures are concave structures.

4. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said optical structures are prisms.

5. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said raised spacing structures comprise at least one post-structure.

6. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said raised spacing structures comprise at least one beam structure.

7. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said raised spacing structures have a height relative to the optical structures said height being between about 0.1 and about 20 microns.

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8. (previously presented) A multilayer backlighting display optical film according to claim 7 wherein said raised spacing structures comprise at least one post-structure.

9. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said backlighting display component films have a thickness between about 0.006 and about 5 millimeters.

10. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein said gap comprises at least one member selected from the group consisting of solid matter, fluid matter and combinations thereof.

11. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein the raised spacing structures have equal heights relative to the optical structures.

12. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein the raised spacing structures have unequal heights relative to the optical structures.

13. (previously presented) A multilayer backlighting display optical film according to claim 1 wherein the raised spacing structures occupy an area, said area being defined as a percentage of a total area of the film surface upon which the raised spacing structures are disposed, said percentage being in a range between about 1 and about 50 percent.

14-28. (canceled)

29. (new) A multilayer backlighting display optical film according to claim 1, wherein at said least one of said backlighting display component films is a diffuser.

30. (new) A multilayer backlighting display optical film according to claim 1, wherein at least one of said backlighting display component films is a brightness enhancement film.

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31. (new) A multilayer backlighting display optical film according to claim 1, wherein at least one of said backlighting display component films is a polarization recycling film.

32. (new) A multilayer backlighting display optical film according to claim 1, wherein said at least two backlighting display component films each comprise optical structures, said component films being configured such that the optical structures of said component films are configured orthogonally.